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IN THE ABSTRACT:

Please replace the Abstract of the Disclosure originally filed with the aboveidentified patent application with the following Abstract: International Application No.: PCT/JP2003/009420 U.S. Patent Application No.: Unknown

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ABSTRACT OF THE DISCLOSURE

Ground A line converter includes ground conductors-4g and 5g, a transmissionline conductor 4a-and a coupling-line conductor 4k-are-formed disposed on a dielectric substrate 3. A dielectric-filled waveguide includes a lower conductor plate 1, an upper conductor plate-2, a lower dielectric strip-6, and an upper dielectric strip-7, where the dielectric substrate 3-is sandwiched between the lower conductor plate 1-and the lower dielectric strip-6, and the upper conductor plate 2- and the upper conductor strip-7, so that a conductor partportion S that is part of the ground conductors of the dielectric substrate forms defines a shield area of the dielectric-filled waveguide. The couplingline conductor 4k-is coupled to a standing wave eausedgenerated by the shield area, at a position where the electric-field intensity of the standing wave is high. Subsequently, a plane circuit can be provided, arranged so as to be be substantially parallel to the direction in which an electromagnetic wave propagates through the three-dimensional waveguide. Further, the dielectric substrate can be easily machined and the characteristic of coupling between the plane circuit and the three-dimensional waveguide provided on the dielectric substrate is prevented from being affected by the precision of assembling the plane circuit and the three-dimensional waveguide so that a line-conversion characteristic according to a predetermined design can be easily obtained.